

CLAIMS

1. A recording medium apparatus comprising:  
shock detecting means of detecting a shock applied  
to data reading and writing means of performing data  
reading and/or writing on a predetermined recording medium,  
and/or the predetermined recording medium; and  
shock history data creating means of creating shock  
history data concerning the detected shock based on a  
predetermined shock level criterion relating to a level  
of the shock.
2. A recording medium apparatus according to claim  
1, further comprising:  
a shock history data memory accumulating the created  
shock history data; and  
shock history data information external output means  
of outputting information on the accumulated shock history  
data to an outside at predetermining timing.
3. A recording medium apparatus according to claim  
1, further comprising control means of performing control  
relating to the data reading and/or writing based on a  
plurality of operation modes,  
wherein the shock level criterion is a criterion  
relating to a shock level determined for each of the  
operation modes.
4. A recording medium apparatus according to claim

3, further comprising operation mode detecting means of detecting the operation mode,

wherein the shock history data creating means writes information on the detected operation mode into the shock history data.

5. A recording medium apparatus according to claim 1, further comprising reading/writing position detecting means of detecting a reading/writing position of the predetermined recording medium on which the data reading or writing is performed,

wherein the shock history data creating means writes information on the detected reading/writing position into the shock history data.

6. A recording medium apparatus according to claim 1, further comprising place time detecting means of detecting a place and/or time,

wherein the shock history data creating means writes information on the detected place and/or time into the shock history data.

7. A recording medium apparatus according to claim 1, further comprising shock level criterion changing means of changing the shock level criterion in accordance with an external instruction.

8. A recording medium apparatus according to claim 1, wherein the shock level criterion is a criterion

relating to a level of the shock determined for each of a plurality of predetermined directions.

9. A recording medium apparatus according to claim 8, wherein the shock history data creating means writes information on the predetermined direction in which the shock is applied into the shock history data.

10. A recording medium apparatus according to claim 8, wherein the predetermined recording medium is a hard disk,

the data reading and writing means is a hard disk drive,

the criterion relating to the level of the shock is a threshold value corresponding to an upper limit of the level of the shock that the hard disk and the hard disk drive can endure, and

the threshold value determined with respect to a direction vertical to a surface of the hard disk is lower than the threshold value determined with respect to a direction parallel to the surface of the hard disk.

11. A recording medium apparatus according to claim 1, further comprising data reading and writing inhibiting means of inhibiting data reading and/or writing when the detected shock exceeds a predetermined limit.

12. A recording medium apparatus according to claim 1, further comprising:

a shock history data memory accumulating the created shock history data;

warning creating means of creating a warning relating to the detected shock based on the accumulated shock history data; and

warning external output means of outputting the created warning to an outside at predetermined timing.